

# Converting Colors

$Y_{xy}(41.8982, 0.4804, 0.4521)$

Have a look what the booklet for  
Yxy(41.8982, 0.4804, 0.4521)  
contains.

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# Color

**Yxy(41.8611, 0.4806, 0.4518)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E3A111
RGB	227, 161, 17
RGB Percent	89%, 63%, 7%
CMY	0.1097, 0.3686, 0.9333
CMYK	0.00, 0.29, 0.93, 0.11
HSL	41°, 86%, 48%
HSV	41°, 93%, 89%
XYZ	44.5295, 41.8611, 6.2634
YIQ	164.3180, 85.5600, -30.7920

# Conversions

## Conversions Part 2

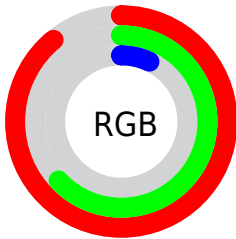
Format	Color
<b>RYB</b>	113, 227, 17
Decimal	14917905
CIELab	70.78, 14.30, 72.41
CIELCh	71, 73.806, 78.825
Yxy	41.8611, 0.4806, 0.4518
Android (android.graphics.Color)	4293107985 (0xFFE3A111)
YUV	164.3180, -72.6278, 54.9721
Hunter-Lab	64.7002, 9.6264, 39.5504

# Details

The Yxy color **41.8611, 0.4806, 0.4518** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle washed orange. A complement of this color would be **11.8584, 0.1667, 0.1150**, and the grayscale version is **37.6087, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.9963, 0.4299, 0.4531**, and **19.2589, 0.4936, 0.4463** is the 20% darker color. If you saturate the color by 10%, you get **39.9932, 0.4893, 0.4497**, and if you desaturate by 10%, it is **44.5401, 0.4666, 0.4509**.

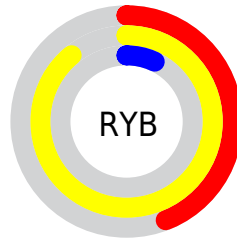
# Distribution



Red (89%)

Green (63%)

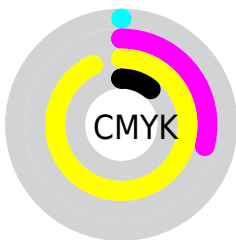
Blue (7%)



Red (44%)

Yellow (89%)

Blue (7%)

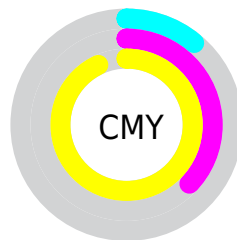


Cyan (0%)

Magenta (29%)

Yellow (93%)

Black (11%)



Cyan (11%)

Magenta (37%)


Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.8611, 0.4806, 0.4518 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 41.8611, 0.4806, 0.4518 by changing the saturation by 10% instead.





 41.8611, 0.4806,  
0.4518


 41.8611, 0.4806,  
0.4518


353.9068, 0.4040,  
0.4020


 28.9925, 0.4949,  
0.4586


 77.9894, 0.4560,  
0.4376

 19.0752, 0.5101,  
0.4640


 102.0179, 0.4457,  
0.4311

 11.7246, 0.5299,  
0.4701


 130.5351, 0.4366,  
0.4250

 6.5565, 0.5386,  
0.4614

 163.9256, 0.4285,  
0.4195

 3.1863, 0.5519,  
0.4481

 202.5735, 0.4213,  
0.4145

 1.2298, 0.5744,  
0.4256

 246.8635, 0.4149,

 0.0858, 0.8339,

0.4099

0.1661

297.1798, 0.4092,  
0.4058

■ 0.0000, 0.0000,  
0.0000

■ 41.8611, 0.4806,  
0.4518

■ 41.8611, 0.4806,  
0.4518

■ 39.9932, 0.4893,  
0.4497

■ 44.5401, 0.4666,  
0.4509

■ 47.4521, 0.4496,  
0.4449

■ 50.6153, 0.4304,  
0.4345

■ 54.0433, 0.4100,  
0.4205

■ 57.7484, 0.3894,  
0.4041

■ 61.7416, 0.3693,  
0.3864

■ 66.0330, 0.3502,  
0.3683

■ 70.6321, 0.3326,  
0.3504

■ 75.5479, 0.3165,  
0.3332

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



41.8611, 0.5190, 0.3785



41.8611, 0.4806, 0.4518



41.8611, 0.4011, 0.5141

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



41.8611, 0.4806, 0.4518



41.8611, 0.1594, 0.3118



41.8611, 0.2896, 0.2011

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



41.8611, 0.4806, 0.4518



11.8584, 0.1667, 0.1150

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



41.8611, 0.2050, 0.1792



41.8611, 0.4806, 0.4518



41.8611, 0.1412, 0.2255

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



41.8611, 0.4806, 0.4518



41.8611, 0.2163, 0.4341



41.8611, 0.1565, 0.1851



41.8611, 0.3992, 0.2470



# Rectangle

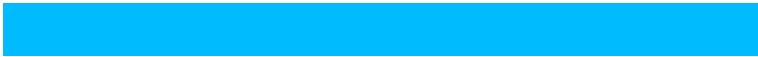
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



41.8611, 0.4806, 0.4518



41.8611, 0.3377, 0.5281



41.8611, 0.1565, 0.1851



41.8611, 0.2575, 0.1909

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



41.8632, 0.4806, 0.4518



82.7289, 0.3609, 0.3786



17.3680, 0.5512, 0.2861



17.1986, 0.3693, 0.3864



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



41.8632, 0.4806, 0.4518



51.8544, 0.4898, 0.4493



65.7471, 0.3880, 0.5266



16.0127, 0.3275, 0.3451



23.5373, 0.4880, 0.4507



1.9039, 0.4755, 0.4606



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



11.8584, 0.1667, 0.1150



12.9820, 0.1611, 0.0999



6.7752, 0.1639, 0.0709



14.6228, 0.2981, 0.3124



6.0743, 0.1621, 0.1036



0.6106, 0.1702, 0.1327



# Previews

## White Background



This preview shows how the Yxy color 41.8611, 0.4806, 0.4518 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 41.8611, 0.4806, 0.4518 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 41.8611, 0.4806, 0.4518**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.8611, 0.4806, 0.4518.



This preview shows how white text looks on a background with the Yxy color 41.8611, 0.4806, 0.4518.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

41.8611, 0.4806, 0.4518

### Protanopia

42.0658, 0.4374, 0.4836

### Deuteranopia

41.9945, 0.4701, 0.4620



## Tritanopia

41.8783, 0.3877, 0.3167

# Trichromacy



**Original Color**

41.8611, 0.4806, 0.4518

**Protanomaly**

41.6918, 0.4533, 0.4720

**Deuteranomaly**

42.1096, 0.4736, 0.4587

**Tritanomaly**

41.2043, 0.4361, 0.3801

# Monochromacy



**Original Color**

41.8611, 0.4806, 0.4518

**Achromatopsia**

37.1238, 0.3127, 0.3290

**Achromatomaly**

37.9069, 0.3846, 0.3999

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.8611, 0.4806, 0.4518 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(227, 161, 17)` looks like.

```
.text, #text, p{  
    color:rgb(227, 161, 17)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(227, 161, 17) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 161, 17) }
```

## Border

The CSS property to change the border of an element to Yxy 41.8611, 0.4806, 0.4518 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(227, 161, 17) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(227, 161, 17) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(227, 161, 17)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 161, 17); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 161, 17);  
box-shadow:4px 4px 4px 4px rgb(227, 161,  
17) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.8611, 0.4806, 0.4518 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 161, 17) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(227,  
161, 17) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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